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Observations of Uranus and Saturn taken with the 6-inch Telescope of the Transit Circle of the Sydney Observatory.

By C. J. Merfield.

The accompanying observations of *Uranus* and *Saturn* were obtained with the telescope attached to the circles of the meridian instrument of the Sydney Observatory.

The writer, who is at present under the direction of Mr. Lenehan, acting Government Astronomer, was able to secure these observations during the evening's work with this instrument.

The equatorial instrument of this observatory requires a thorough overhauling, which will be undertaken at an early date; when completed it is the intention to secure observations of minor planets, comets, and southern double stars. The present writer anticipates being able to undertake this work.

URANUS.

1904.	M.T. Sydney.	$\Delta\alpha$.	$\Delta\delta$.	Cp.	α app.	δ app.	Log $p\Delta\delta$.	Star reductions to apparent.	Star.
	h m s	m s	′ ″		h m s	° ′ ″		s ″	
July 16	10 7 41	+8 4·99	+0 48·7	7 1	17 46 34·53	−23 37 9·8	0·1863$_n$	+3·18 +7·9	1
16	10 7 41	+0 43·56	...	7	17 46 34·56	...	...	3·19 ...	4
18	9 59 31	+0 25·51	+1 50·7	7 1	17 46 16·51	−23 37 4·3	0·1864$_n$	3·19 8·4	4
26	9 26 57	+6 39·78	+1 16·7	7 1	17 45 9·28	−23 36 42·0	0·1867$_n$	3·14 7·7	1
26	9 26 57	+4 15·88	...	7	17 45 9·32	...	...	3·15 ...	3
27	9 22 53	+6 32·20	...	7	17 45 1·70	...	...	3·14 ...	1
27	9 22 53	+4 8·32	...	7	17 45 1·76	...	...	3·15 ...	3
29	9 14 46	+6 17·40	+1 24·5	7 1	17 44 46·89	−23 36 34·3	0·1868$_n$	3·13 7·6	1
29	9 14 46	−1 4·13	...	7	17 44 46·83	...	...	3·15 ...	4
Aug. 2	8 58 34	+5 48·90	+1 33·7	7 1	17 44 18·36	−23 36 25·1	0·1869$_n$	3·10 +7·6	1
2	8 58 34	+3 24·86	...	7	17 44 18·26	...	...	+3·11 ...	3

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1904.	M.T. Sydney.	Δα	Δδ.	Cp.	α app.	δ app.	Log $p\Delta\delta$.	Star reductions to apparent.		Star.
	h m s	m s			h m s	° ′ ″		s	″	
Aug. 2	8 58 34	−1 32·55	...	7	17 44 18·38	...	...	+3·12	...	4
3	8 54 32	+5 42·26	+1 36·8	7 1	17 44 11·71	−23 36 22·0	0·1869$_n$	3·09	+7·6	1
3	8 54 32	+3 18·34	...	7	17 44 11·73	...	...	3·10	...	3
3	8 54 32	−1 39·21	...	7	17 44 11·71	...	...	3·11	...	4
5	8 46 27	+5 29·50	+1 40·8	7 1	17 43 58·93	−23 36 18·1	0·1869$_n$	3·07	7·5	1
5	8 46 27	+3 5·44	...	7	17 43 58·80	...	...	3·07	...	3
5	8 46 27	−1 51·89	...	7	17 43 59·02	...	...	3·10	...	4
10	8 26 19	+5 0·50	+1 53·0	7 1	17 43 29·88	−23 36 6·0	0·1871$_n$	3·02	7·4	1
10	8 26 19	+2 36·86	...	7	17 43 30·18	...	...	3·03	...	3
10	8 26 19	−2 20·78	...	7	17 43 30·08	...	...	3·05	...	4
13	8 14 16	+4 45·80	+1 57·5	7 1	17 43 15·14	−23 36 1·5	0·1871$_n$	2·98	7·4	1
13	8 14 16	+3 32·65	...	7	(17 43 15·05)	...	...	2·98	...	(2)
13	8 14 16	+2 21·69	...	7	17 43 14·97	...	...	2·99	...	3
13	8 14 16	−2 35·80	...	7	17 43 15·02	...	...	3·01	...	4
16	8 2 15	+4 32·13	+2 3·4	7 1	17 43 1·43	−23 35 55·6	0·1872$_n$	2·94	7·4	1
16	8 2 15	+2 8·05	...	7	17 43 1·39	...	...	2·95	...	3
16	8 2 15	−2 49·25	...	7	17 43 1·53	...	...	2·97	...	4
17	7 58 15	+4 28·13	+2 5·2	7 1	17 42 57·42	−23 35 53·8	0·1872$_n$	2·93	+7·4	1
17	7 58 15	+3 15·14	...	7	(17 42 57·49)	...	...	2·93	...	(2)
17	7 58 15	+2 4·16	...	7	17 42 57·39	...	...	2·94	...	3
17	7 58 15	−2 53·21	...	7	17 42 57·56	...	...	+2·96	...	4

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1904	M.T. Sydney.	Δα.	Δδ.	Cp.	α app.	δ app.	Log $p\Delta_\delta$.	Star reductions to apparent		Star.
	h m s	m s	′ ″		h m s	° ′ ″		s	″	
Aug. 20	7 46 16	+1 53·27	...	7	17 42 46·46	...	...	+2·90	...	3
20	7 46 16	−3 4·25	+3 4·9	7 1	17 42 46·48	−23 35 50·7	0·1873$_n$	2·92	+7·8	4
22	7 38 19	+4 11·93	+2 11·1	7 1	17 42 41·15	−23 35 48·0	0·1873$_n$	2·86	7·3	1
22	7 38 19	+1 47·93	...	7	17 42 41·09	...	...	2·87	...	3
23	7 34 19	−3 13·25	+3 9·0	7 1	17 42 37·43	−23 35 46·6	0·1873$_n$	+2·87	+7·8	4

Mean Places of Comparison Stars.

Star.	α 1904.	δ 1904.	Authorities.
	h m s	° ′ ″	
1	17 38 26·36	−23 38 6·4	Cape 1850; Yarnall 1860; Argent. Gen. Cat. 1875; Paris 1875; Cape 1880.
2	17 39 39·42	...	Cape D.M. 23°, 6642.
3	17 40 50·29	−23 38 46·8	Yarnall 1860; Argent. Gen. Cat. 1875.
4	17 45 47·81	−23 39 3·4	Madras 1835; Argl. 1850; Argent. Gen. Cat. 1875; Cord. Z.C. 1875; Paris 1875; Radcliffe 1890.

SATURN.

1904.	M.T. Sydney.	Δα.	Δδ.	Cp.	α app.	δ app.	Log $p\Delta_\delta$.	Star reductions to apparent.		Star.
	h m s	m s	′ ″		h m s	° ′ ″		s	″	
Oct. 3	8 22 46	+8 56·25	+0 21·9	7 1	21 9 32·24	−17 36 12·5	0·3864$_n$	+2·86	+18″·3	1
24	6 59 25	+8 10·09	−2 10·3	7 1	21 8 45·75	−17 38 45·9	0·3853$_n$	+2·53	+17·1	1
25	6 55 32	+8 12·51	−1 57·4	7 1	21 8 48·15	−17 38 33·1	0·3854$_n$	+2·51	+17·0	1
31	6 32 18	+8 34·49	−0 3·6	7 1	21 9 10·03	−17 36 39·6	0·3862$_n$	+2·41	+16 7	1

Mean Place of Comparison Star.

Star.	α 1904.	δ 1904.	Authority.
	h m s	° ′ ″	
1	21 0 33·13	−17 36 52″·7	*Nautical Almanac*, 1904 (θ Capricorni). The correction +0^s·019 has been applied to α 1904. *See* Clock Star List 1904, Royal Observatory, Greenwich.

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